Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact	2013-2014 Target
Goal 1: Reduce Air Pollution					
Objective 1: By 2020, in accordance with the NAFTA, promound comply with the respective vehicle emissions standards, as reduction measures.			-	_	_
Study by DOT (FHWA) on wait times and emissions at Ports of Entry	FHWA/ EPA/ SEMARNAT	******	DOT	Sylivia Grijalva (USDOT)	To be completed— December 2012
Initiate a Vehicle Emissions Verification Program in Sonora. Would require inspection of passenger vehicles to meet state emission standards.	CEDES/ SEMARNAT	Š	ė	ė	Ongoing
Possible Project at the Mariposa POE (identify a specific project or delete)	Multi-Agency	?	?	Melissa Walker (AZ Commerce)	?
Objective 2: By 2020, reduce pollutant emissions in order following airsheds: Ambos Nogales	to approach attainmen	t of respectiv	ve national am	bient air quality	standards in the
Complete and implement PM-10 State Plan for Ambos Nogales	ADEQ	******	***********	ADEQ	?
Creation of a regional nursery for the production of flora to be used in the reforestation of the Rio Altar Region (Sonora)	Rio de Altar/ CEDES/ SEMARNAT/ Comisión Nacional Forestal	\$172,000	RHQ-Comisión Nacional Forestal		
Creation of a regional nursery for the production of flora to be used in the reforestation of the Rio Altar Region (Sonora)	Rio de Altar/ CEDES/ SEMARNAT/ Comisión Nacional Forestal	\$162,200	RHQ-Comisión Nacional Forestal		
Ambos Nogales Outreach Activities (transition to a webbased/electronic calendar-outreach source)	EPA/ ADEQ/ CEDES			Border Office (ADEQ)	
Placeholder for road paving projects in Sonora.	BECC/ NADB				
Objective 3: By 2018, maintain effective air monitoring ne	tworks and provide rea	II-time acces	s to air quality	data in Arizona,	/Sonora
Develop and implement a strategy for enhanced coordination of air monitoring and related activities in border communities	CEDES, ADEQ, EPA, SEMARNAT				
Objective 4: By 2015, support completion of climate action the necessary capacity to guarantee sustained implementations.	•	ix northern M	Mexican Border	States (as appr	opriate), and build
Sonora Climate Change Action Plan Mitigation Cost Benefit Analysis (Phase II)	CEDES, BECC, INE	\$275,000	BECC	T. Balarezo (BECC)	Complete Phase II
Objective 5: By 2020, reduce emissions and associated im	pacts through energy e	fficiency and	or alternative	/renewable ene	ergy projects.
Encourage (in all sectors) the eco efficiency, application of clean technologies and the generation and use of renewable energy.	TBD	TBD	TBD	TBD	TBD

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Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact	2013-2014 Target				
Goal 2: Improve Access to Clean and Safe Water									
Objective 1: Promote the increase in th	e number of hom	es connected t	to safe drinking	water and adec	quate wastewater treatment.				
Sub-objective 1a: By 2015, promote access	to safe drinking wa	ater to at least 5	,000 households	. Revise target e	very two years.				
US-Mexico Border Water Infrastructure Program drinking water projects currently under construction.	EPA/ CONAGUA/ BECC/ NADB		Border Environment Infrastructure Fund (BEIF)	Awilda Fuentes (EPA HQ)	Combined total: 5000 households				
Sub-objective 1b: By 2015, promote access	to adequate waste	water sanitatio	· · · · · · · · · · · · · · · · · · ·	eholds. Revise t	arget every two years.				
US-Mexico Border Water Infrastructure Program wastewater projects currently under construction.	EPA/ CONAGUA/ BECC/ NADB		BEIF	Awilda Fuentes (EPA HQ)	Combined total: 42,000 households, XX million gallons of wastewater treated				
Objective 2: Help drinking water and w reduce operating costs, improve energy		-	_	-	sustainable infrastructure practices to				
Sub-objective 2a: Incorporate sustainable i supported BECC-certified projects.	infrastructure elem	ents, as feasible	and appropriate	e, into U.SMexic	co Border Water Infrastructure Program-				
EPA Region 9 will incorporate sustainable infrastructure components in the development phase of US-Mexico Border Water Infrastructure Program projects.	USEPA/ CONAGUA/ BECC			Hector Aguirre (EPA Reg. 9)					
Sub-objective 2b: Improve energy efficience	y and efficient wat	er use provided	by drinking water	er and wastewate	er service providers in the border region.				
Region 9 will include energy audits in the final design of 8 US-Mexico Border Water Infrastructure Program projects.	USEPA/ CONAGUA/ BECC		PDAP	Renata Manning (BECC)	Energy audit reports for in at least 8 communities				
Region 9 will include water audits in the final design of US-Mexico Border Water Infrastructure Program projects. (How many are anticipated?)	USEPA/ CONAGUA/ BECC			Hector Aguirre (EPA Reg. 9)	Water audit reports for selected communities				
Sub-objective 2c: Build operational, manag	gerial and financial	capacity throug	h training of drin	king water and w	vastewater service providers in the border				
region.	1	1 4	I	l					
Wastewater operations training in seven	EPA/ NADB	\$137,000	EPA Border 2012	Salvador Gandara (EPA)	50 people trained, 288 hours of training over 18 courses				

and San Luis Rio Colorado, Mexicali, and Tijuana.					
Solar power at the Los Alisos Wastewater Treatment Plant	EPA, BECC	\$210,000	EPA	Thomas Konner (EPA, Reg. 9)	Final design on a 902 KW photovoltaic plant with peak capacity of 1572 MWh/year
Objective 3: Work bi-nationally to iden	tify and reduce sur	rface water co	ontamination in	transboundary	waterbodies and watersheds.
Creation of a regional nursery for the production of flora to be used in the reforestation of the Rio Altar Region (Sonora)	Rio de Altar, CEDES, SEMARNAT Comisión Nacional Forestal	\$172,000	RHQ-Comisión Nacional Forestal		
Creation of a regional nursery for the production of flora to be used in the reforestation of the Rio Altar Region (Sonora)	Rio de Altar, CEDES, SEMARNAT Comisión Nacional Forestal	\$162, 200	RHQ-Comisión Nacional Forestal		
Sub-objective 3b: Every two years, identify Santa Cruz River and/or the Nogales Creek.	•	east one proje	ct to reduce the l	evel of heavy me	tals, sediment, and/or bacteria entering the
Sampling and testing equipment and supplies to support Nogales, Sonora pretreatment program	IBWC	Est \$10,000		Calos Peña (IBWC)	Prepare joint agreement, provide support
Nogales, Sonora wastewater project for Southwest zone of Nogales.	CONAGUA/ EPA/ BECC/ NADB	\$12M total construction	PDAP	Thomas Konner (Reg. 9 EPA)	BECC Certification of project
Hold regular bi-national meetings to bring US and Mexican technical experts together to discuss issues, alternatives, and resources.	IBWC			Wayne Belzer (IBWC)	
Hold biannual Water Task Force meetings, which will include updates on status of previously funded Border 2012 projects, such as stormwater detention devices, stream gauge monitors, and water harvesting projects. Also will provide status on rehabilitation of the International Outfall Interceptor.	ADEQ/ IBWC/ CILA/ CONAGUA	?		Hans Huth (ADEQ)	Hold 4 task force meetings
Objective 4: Provide the public with time web-based format.	nely access to wate	er quality data	a in binational w	vaterbodies and	watersheds in a readily understandable,
Sub-objective 4c: Develop a binational we Grande, the New River, and the Tijuana Riv	•	•	•	lity in high-priori	ty watersheds including the Lower Rio
Access to Friends of the Santa Cruz River (FOSCR) volunteer monitoring data for the Upper Santa Cruz River	ADEQ		Hans Huth, (ADEQ)	Hans Huth, (ADEQ)	Website developed and operated

Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact	2013-2014 Target
Goal 3: PROMOTE MATERIALS MANA	AGEMENT AND WAS	TE MANGEMENT	AND CLEAN SITE	<u>:S</u>	
Objective 1: By 2020, increase local and	state-level institution	al knowledge and	experience in the a	area of sustainable ma	terial management practices.
Provide outreach and training on sustainable materials management, best management practices, innovations and lessons learned by generators/businesses, tools such as life cycle analysis, and regulatory trends. E-waste: Address electronic waste (E-waste) best management practices based on existing certification programs [Responsible Recyclers (R2) and E-Stewards]. Zero waste/special waste management: Address zero waste management concepts and guidance on compliance with Mexico's Norm 161 on "special waste" manaegment plans. (Implement basic training in both	EPA/ SEMARNAT/ BECC/ ADEQ/ CEDES	Minimal to None (Use webinar-based training options to minimize costs)	Leverage in-kind (Assume minimal costs by inviting speakers from government and industry; no travel costs assumed	E. Pimentel; (EPA); Verónica García (ADEQ), Alfredo Ríos DTSC- Ewaste); Sergio Gasca (SEMARNAT- special waste);	Complete at least two trainings (e.g. webinar based) on E-waste and Zero waste/special waste topics. Measure number of participants and business or institutions reached and individuals that participate in training.
AZ/Son & CA/Baja CA*). Increase awareness and knowledge on diversion of organic waste (green waste and food scraps) from landfills to composting. (Implement via CA/Baja CA). [Training being lead by Baja CA non-profit, but could also be offered to AZ/Sonora interested individuals; targeting industrygenerated food waste diversion and developing composting via municipal program.] Objective 2: By 2014, identify priorit	EPA/ SEMARNAT/ Tijuana Calidad de Vida/ Municipality of Tijuana/ and other civic organizations	Minimal to None (Use webinar-based training options to minimize costs)	Leverage in-kind support from Tijuana Calidad de Vida, City of Tijuana, EPA, SPA, and others	Leverage in-kind (Leverage training thru second phase of existing project in Baja CA, Tijuana Calidad de Vida and other invited; no travel costs assumed)	Complete at least two trainings (webinar based or other outreachtraining format). Measure number of participants and business/institutions reached and individuals that participate in training.
respective market value.		,			0
Train interested "recyclers" operating in border region, on E-waste certification requirements (based on Responsible	EPA/ SEMARNAT/ ADEQ/ CEDES/ and non-profit "recycling"	\$120,000	EPA border funds and leverage in-kind	Emily Pimentel (EPA Reg. 9) Verónica García	Complete training of at least five firms (in border region).

Recyclers (R2) and e-Stewards certification programs).	certification program organizations			(ADEQ) & Gerardo Mayoral (ADEQ)	Measure number of participants and business/institutions reached and individuals that participate in training and number of new firms taking steps to get certified by 2020 in border states.
Increase capacity to develop and comply with special waste management plans in Sonora, based on MX Norm 161. Use existing Sonora border region waste inventory to identify waste stream priorities for development of waste management plans and target strategic industry material/waste streams.	CEDES/ SEMARNAT	In Kind	CEDES/ SEMARNAT	TBD (CEDES)	Model special waste management plan template and guidance on applying Mx Norm 161.
Solid waste trash collection vehicles for the municipality of Magdalena, Sonora	Magdalena/ CEDES, SEMARNAT	\$189,000	SEMARNAT; Dirección General de Fomento Ambiental Urbano y Turístico (DGFAUT)	Joaquín Marruffo (SPA); C. Chávez (SEMARNAT)	Acquisition of a solid waste trash collection vehicles for the municipality of Magdalena, Son
Scrap tire shredder	CEDES/ SEMARNAT	\$246,500	SEMARNAT; (DGFAUT)	Joaquín Marruffo (SPA); C. Chávez (SEMARNAT)	Acquisition of a scrap tire shredder
Objective 3: By 2020, improve knowl	edge at every level o	of government (fe	ederal, state, loca	al) to characterize and	d remediate contaminated sites.
Improve remediation knowledge associated with specific waste streams (e.g. lead, pesticides, mine tailings) and site categories (e.g. metal smelters, UST, etc.) Provide training (webinar- based) on topics of binational interest and promote development of U.SMexico network by leveraging EPA's Clean-up Information Program (www.clu-in.org).	EPA/ SEMARNAT/ INE	\$5,000	EPA, SEMARNAT, ADEQ, CEDES	Emily Pimentel (EPA Reg. 9); SEMARNAT (TBD); Verónica García (ADEQ); Gerardo Mayoral (ADEQ)	Complete at least one training (webinar based or other outreachtraining format). Measure number of participants and business or institutions reached and individuals that participate in training.
Objective 4: On an annual basis, imp facilities.	lement the Bination	al Consultative N	Aechanism on sh	aring information on	border area hazardous waste
Work with the Waste Policy Forum to facilitate access to binational information associated with any new and existing facilities that manage hazardous waste in	ADEQ/ CEDES/ EPA/ SEMARNAT	In-kind	In-kind EPA, SEMARNAT, and State Program Funding	Rick Picardi (EPA HQ) Eduardo Gonzalez Hernandez (SEMARNAT)	Annually report, unless there are proposed new facilities in which case the respective countries should be notified within 30 days of a petition for

the U.SMexico border per the			a facility permit.
Consultative Mechanism.			

Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact	2013-2014 Target				
Goal 4: Enhance Joint Preparedness for Environmental Response									
Objective 1: Update as necessary, the current Mexico-US Joint Contingency Plan and on an annual basis, continue to evaluate and update the									
emergency notification mechanism bet	ween Mexico and	the United Sta	ites.						
Table top exercises in Sonora and One Additional City	PROFEPA/ Civil Protection/ Local Responders	\$100,000	EPA Superfund	Lida Tan (EPA Reg. 9)	Table top exercise in Sonora and one additional City. Identify recommendations for improvements				
Objective 2: By 2020, at least eight (8) activities such as certified training, risk	• •	_		supplemented with	preparedness and prevention related				
Trinational Contingency Plan for Tohono O'odham, Yuma, and San Luis Rio Colorado	Tohono O'odham/ City of Yuma/ City of San Luis Rio Colorado	\$80,000	EPA Superfund	Lida Tan (EPA Reg. 9)	Finalization of the plan				
Objective 3: By 2016, the US-Mexico JR	T will make availal	ble technical o	outreach and ti	aining materials for	distribution and dissemination along				
the border.									
Distribution of DOT Emergency Response Guide	Arizona Emergency Management	\$2,500	EPA Superfund	Lida Tan (EPA Reg. 9)	750 Spanish copies distributed				
Distribution of ICS,PPE, Fire Safety, Radiation Safety, Mercury Response, FRA	Arizona Emergency Management	\$10,000	EPA Superfund	Lida Tan (EPA Reg. 9)	Distribute subject materials in Spanish				
Objective 4: By 2016, the US-Mexico JRT will analyze existing agreements (including sister city plans) that allow trans-boundary movement of equipment and personnel for comparison purposes.									

Arizona/Sonora Two Year Action Plan

Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact	2013-2014 Target					
Goal 5: Enhance Compliance Assurance and Environmental Stewardship										
Objective 1: By 2020, strengthen effective information sharing between U.S. and Mexican agencies regarding the movement of hazardous waste across the border and its ultimate treatment or disposal. In addition, ensure that land ports-of-entry have sufficient inspection capacity to										
Support Hazardous Waste Port-of-Entry	police hazardous waste shipments. Support Hazardous Waste Port-of-Entry ADEQ, U.S. CBP, EPA RCRA Emily Pimentel (EPA Work out improved access by ADEQ to the									
Inspections at the Nogales Commercial Port	EPA		Grant	Reg. 9) & Ivan Lieben (EPA Reg. 9); Veronica Garcia (ADEQ)	Nogales Port-of-Entries for inspections					
Objective 2: By 2020, in Mexico, increase				_						
Environmental Auditing (PNAA) and/or	similar programs a	it the state lev	el for facilities	not regulated by the f	ederal government, using 2012 as a					
baseline.				1						
PROFEPA to complete this section					This field will be updated in 2013 and 2014					
Objective 3: Using the U.S. Toxic Relea	se Inventory (TRI)	and the Mexic	an Registry of	Emissions and Transfe	rs of Pollutants (RETC), along with					
other sources of environmental informa	ation, share inform	ation regardir	ng activities co	ntributing pollution to	transboundary air and/or water					
basins along the border.										
Increases public knowledge of industrial discharges/releases, using EPA's Toxic Release Inventory (TRI). Prepare TRI factsheets highlighting 2011 data in the Arizona Border Region	US EPA- Region 9	Staff Time	N/A	José García (EPA Reg. 9)	One factsheet covering TRI releases in Arizona border region					
Should we add something similar to the above for Sonora	SEMARNAT									
Objective 4: By 2020, implement at least	st five (5) bination	al workshops	targeted to en	vironmental enforceme	ent professionals, including port-of-					
entry customs professionals, to promot	e the exchange of	information a	nd improve un	derstanding of each co	untry's respective compliance and					
enforcement programs and tools, include	enforcement programs and tools, including field inspection and case studies.									
Provide training to Mexican inspectors on	ADEQ, EPA,	ADEQ: FTE	Border 2020	Veronica Garcia (ADEQ)	Report Annually.					
ADEQ's plating shop inspection initiative.	PROFEPA, SEMARNAT, CEDES	Translation: \$3,000	Request for Proposals	Eder Delgadillo (ADEQ)	Translate training materials. Provide training. Conduct follow-up with training attendees.					
Intelligence/information sharing of	EPA Region 9, CBP,	Staff FTE	Border 2020	Eder Delgadillo (ADEQ)	Improved intelligence and information on					
transboundary movement of hazardous waste	PROFEPA, ADEQ, CEDES	Translation: \$3,000	Request for Proposals	Inspector Supervisor (ADEQ)	transboundary waste moving across the border					